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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/618,952	07/14/2003	Morgan D. Murphy	DP-309769 6410	
22851 75	90 06/20/2005		EXAMINER	
DELPHI TEC	HNOLOGIES, INC.		TO, TU	IAN C
M/C 480-410-2 PO BOX 5052	02 .		ART UNIT	PAPER NUMBER
TROY, MI 48	3007		3663	
·			DATE MAILED: 06/20/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/618,952	MURPHY, MORGAN D.			
	Office Action Summary	Examiner	Art Unit			
		Tuan C. To	3663			
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet with the c	correspondence address ·			
THE - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication, period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by stately received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	 In no event, however, may a reply be tirely within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE 	nely filed /s will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)🖂	Responsive to communication(s) filed on <u>14 July 2003</u> .					
2a)□	•	nis action is non-final.				
3)□	, , , , , , , , , , , , , , , , , , , ,					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims	•				
	4)⊠ Claim(s) <u>1-4</u> is/are pending in the application.					
_	4a) Of the above claim(s) is/are withdrawn from consideration.					
· -	Claim(s) is/are allowed.					
· · · · —	Claim(s) <u>1-4</u> is/are rejected. Claim(s) is/are objected to.					
· · · · · · · · · · · · · · · · · · ·	Claim(s) are subject to restriction and	/or election requirement				
	•					
_	on Papers					
	The specification is objected to by the Exami					
10)☑ The drawing(s) filed on <u>14 July 2003</u> is/are: a)☑ accepted or b)☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the corre	* * *				
11)	The oath or declaration is objected to by the		•			
Priority u	ınder 35 U.S.C. § 119					
a)[Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Buresee the attached detailed Office action for a list	nts have been received. nts have been received in Applicati iority documents have been receive eau (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachmen	S(s)					
	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
3) 🛛 Inforn	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date <u>11/24/2003</u> .	Paper No(s)/Mail Da 8) 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)			
0. D-44.7	ademark Office		<u> </u>			

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35.U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims are rejected under 35 U.S.C. 103(a) as being unpatentable over Murphy (US 20050011682A1) and in view of Aoki et al. (US 6774319B2).

With respect to claim 1, Murphy discloses an apparatus for estimating the weight of an occupant of a vehicle seat supposed by a floor bracket as claimed. Murphy discloses a force sensor (38), and a force transfer mechanism interposed between floor bracket (16) and a mounting bracket (12) (Murphy, figure 6). The force transfer mechanism also includes first and second co-joined lever arms (70, 72) coupled to said floor bracket and said mounting bracket (Murphy, figure 6), where said lever arms terminate in first and second jaws that engage said force sensor (38).

Although Murphy does disclose that occupant weight applied to said seat produces movement of said lever arms that increases said engagement force to the

force sensor (38) but Murphy is missing to disclose that said force sensor produces an output signal indicative of said occupant weight.

Aoki et al has been cited to overcome the missing features from Murphy. In Aoki et al, there is included a load sensor, and also included a teaching of force sensor produces an output signal indicative of the occupant weight (Aoki, abstract; figure 1).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Murphy to include the teachings of Aoki et al. so that the safety devices presented in the vehicle are properly activated whether the occupant on the seat is an adult or a child.

With regard to claim 2, Murphy discloses "first lever arm that is rotatably coupled to said mounting bracket and said second lever arm is rigidly secured to and floor bracket" (Murphy, figure 6).

With regard to claim 3, Murphy discloses that "overload means for limiting upward movement of said seat mounting bracket with respect to said floor bracket to prevent said seat from becoming detached from said floor bracket" (Murphy, figure 6; page 2, paragraph 0020).

With regard to claim 4, Murphy discloses that "seat includes a set of mounting brackets, and the apparatus includes a force sensor and compliant force transfer mechanism for each such seat mounting bracket, and the force sensors are co-located in pairs to facilitate electrical connections to the force sensor (Murphy, figure 2; figure 6, page 2, paragraph 0020).

Art Unit: 3663

Conclusions

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan C To whose telephone number is (571) 272-6985. The examiner can normally be reached on from 8:00AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (571) 272-6956.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/tc

June 8, 2005